United States Patent and Trademark Office



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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

02/19/2004

Bruce J. Wolstoncroft, Esquire Barley, Snyder, Senft & Cohen, LLC 126 East King Street Lancaster, PA 17602 EXAMINER GLENN, KIMBERLY E

JEENN, KIMBERET I

PAPER NUMBER

2817

DATE MAILED: 02/19/2004

APPLICATION NO. FILING DATE		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
	10/020.281	12/14/2001	Hung Thai Nguyen	21748-913	9142	

TITLE OF INVENTION: CROSS TALK COMPENSATION CIRCUIT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	05/19/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

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I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status.
- * See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's resp nsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), t: Mail

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Alexandria, Virginia 22313-1450 (703) 746-4000 r Fax INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must 7590 02/19/2004 have its own certificate of mailing or transmission. Bruce J. Wolstoncroft, Esquire Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO, on the date indicated below. Barley, Snyder, Senft & Cohen, LLC 126 East King Street Lancaster, PA 17602 (Depositor's name (Signature (Date) APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 12/14/2001 10/020.281 Hung Thai Nguyen 21748-913 9142 TITLE OF INVENTION: CROSS TALK COMPENSATION CIRCUIT APPLN. TYPE **SMALL ENTITY ISSUE FEE PUBLICATION FEE** TOTAL FEE(S) DUE DATE DUE NO \$1330 \$300 \$1630 05/19/2004 nonprovisional **EXAMINER** CLASS-SUBCLASS ART UNIT GLENN, KIMBERLY E 2817 333-001000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single $\mbox{\ensuremath{\square}}$ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer attorneys or agents. If no name is listed, no name Number is required. will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) Please check the appropriate assignee category or categories (will not be printed on the patent); ☐ individual Corporation or other private group entity 4a. The following fee(s) are enclosed: 4b. Payment of Fee(s): ☐ Issue Fee ☐ A check in the amount of the fee(s) is enclosed. Publication Fee □ Payment by credit card. Form PTO-2038 is attached. ☐ Advance Order - # of Copies ☐ The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). Director for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. (Authorized Signature) (Date) NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is

application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Alexandria, Virginia 22313-1450.

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75	90 02/19/2004		EXAM	INER	
Bruce J. Wolstoncroft, Esquire Barley, Snyder, Senft & Cohen, LLC			GLENN, KIMBERLY E		
126 East King Stree			ART UNIT	PAPER NUMBER	
Lancaster, PA 1760			2817		
			DATE MAILED: 02/19/200	4	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 191 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 191 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Applicati n N .	Applicant(s)	
	10/020,281	NGUYEN, HUNG THAI	
Notic of Allowability	Examin r	Art Unit	
	Kimberly E Glenn	2817	
The MAILING DATE f this communication appe All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate common GHTS. This application is so	n this application. If not included unication will be mailed in due course. THIS	
1. This communication is responsive to <a (b)="" (pto-152)="" (see="" 1)="" 1.="" 2)="" 37="" 5.="" a="" abandonm="" application="" as="" att<="" attached="" be="" below.="" by="" cfr="" changes="" comment="" comply="" composition="" date="" date"="" declaration="" deposit="" draftspers="" each="" examiner's="" extendable.="" failure="" give="" hereto="" href="https://dx.ncbi.nlm.ncbi.nl</td><td></td><td></td></tr><tr><td>2. 🖾 The allowed claim(s) is/are <u>2-16</u>.</td><td></td><td></td></tr><tr><td>3. 🖾 The drawings filed on 14 December 2001 are accepted by</td><td>the Examiner.</td><td></td></tr><tr><td>4. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents nave International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE " identifying="" in="" including="" indicia="" informal="" is="" labeled="" mail="" mailing="" must="" no.="" not="" notice="" number="" oath="" of="" on="" or="" paper="" patent="" period="" regarding="" replacement="" required="" requirement="" result="" sheet(s)="" sheet.="" should="" submitined="" substitute="" such="" td="" the="" this="" three-month="" timely="" to="" which="" will="" ☐=""><td>been received. been received in Application currents have been received of this communication to file ENT of this application. Itted. Note the attached EX as reason(s) why the oath of the submitted. It is non's Patent Drawing Review Amendment / Comment of the header according to 37 CF is it of BIOLOGICAL MAT</td><td>on No In this national stage application from the din this national stage application from the ear reply complying with the requirements. AMINER'S AMENDMENT or NOTICE OF redeclaration is deficient. In (PTO-948) attached In the Office action of the drawings in the front (not the back) of FR 1.121(d). ERIAL must be submitted. Note the</td>	been received. been received in Application currents have been received of this communication to file ENT of this application. Itted. Note the attached EX as reason(s) why the oath of the submitted. It is non's Patent Drawing Review Amendment / Comment of the header according to 37 CF is it of BIOLOGICAL MAT	on No In this national stage application from the din this national stage application from the ear reply complying with the requirements. AMINER'S AMENDMENT or NOTICE OF redeclaration is deficient. In (PTO-948) attached In the Office action of the drawings in the front (not the back) of FR 1.121(d). ERIAL must be submitted. Note the	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No 8), 7. ☐ Examiner's	formal Patent Application (PTO-152) ummary (PTO-413), /Mail Date Amendment/Comment Statement of Reasons for Allowance	

Application/Control Number: 10/020,281

Art Unit: 2817

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: With regards to claims 2-5, the prior art of record does not disclose or fairly teach a fifth conductor having a first end connected to the first input signal and a second end attached to the first compensation line. With regards to claims 6-11, the prior art of record does not disclose or fairly teach a first compensation line attached to the first input signal; and a second compensation line attached to the third input signal and intertwined with the first compensation line to create a first compensation line assembly parallel to and flanked by the second conductor and fourth conductor with capacitive and inductive coupling.

With regards to claims 12-16, the prior art of record does not disclose or fairly teach a first compensation line attached to the first input signal on the first side; and a second compensation line attached to the third input signal on the first side and intertwined with the first compensation line to create a first compensation line assembly parallel to and flanked by the second conductor and fourth conductor with capacitive and inductive coupling; and a third compensation line attached to the fourth input signal on the first side; and a fourth compensation line attached to the second input signal on the first side and intertwined with the third compensation line to create a second compensation line assembly parallel to and adjacent to the second conductor with capacitive and inductive coupling.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Application/Control Number: 10/020,281 Page 3

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimberly E Glenn whose telephone number is (571)-272-1761. The examiner can normally be reached on Monday-Friday 7:30 to 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571)-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kimberly E Glenn

Examiner

Art Unit 2817

keg

Supervisor Potent Examiner

Technology enter 2800